R3

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-286770
(43)Date of publication of application : 19.10.1999

(51)Int.Cl. C23C 8/24

(21)Application number : 10-105887
(22)Date of filing : 01.04.1998

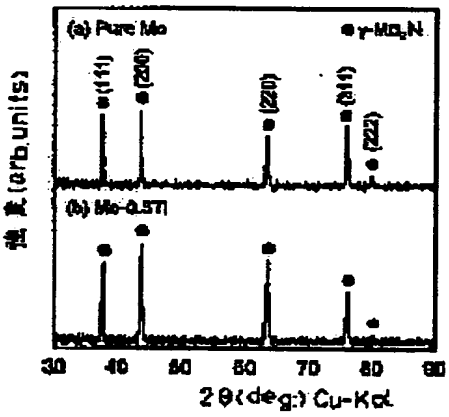
(71)Applicant : YOSHIOKA TAKASHI
(72)Inventor : TAKADA JUN
NAGAE MASAHIRO
HIRAOKA YUTAKA
KUWABARA HIDEYUKI

(54) HIGH CORROSION RESISTANCE MOLYBDENUM-BASED COMPOSITE MATERIAL AND TS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To impart a corrosion performance equal to that of Ta to a material and to obtain a mechanical strength and hardness more excellent than those of Ta by subjecting Mo and an Mo-based alloy to nitriding treatment.

SOLUTION: This high corrosion resistance Mo-based composite material is characterized by providing the surface of an Mo alloy with an Mo2N layer of 0.5 to 10 μm thickness. The method for producing a high corrosion resistance Mo-based composite material is characterized by subjecting an Mo series alloy to nitriding treatment for 0.2 to 100 hr in an atmosphere heated at a temp. of 700 to 1,150° C in the presence of gaseous N2 or gaseous NH3.



LEGAL STATUS

Date of request for examination]

Date of sending the examiner's decision of ejection]

Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

Date of final disposal for application]

Patent number]